

Biotinylated Human IGFBP-4 Protein, Avitag™,Flag&His Tag (HPLC verified)

Catalog # IG4-M82D3



Synonyms

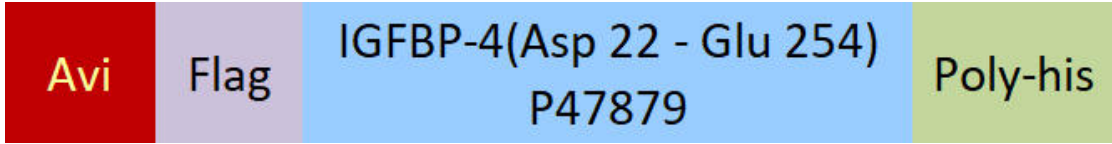
IGFBP4, IBP-4

Source

Biotinylated Human IGFBP-4 Protein, Avitag,Flag&His Tag (IG4-M82D3) is expressed from human 293 cells (HEK293). It contains AA Asp 22 - Glu 254 (Accession # [P47879](#)).

Predicted N-terminus: Gly

Molecular Characterization



The protein has a calculated MW of 30.5 kDa. The protein migrates as 35-38 kDa and 40-41 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Labeling

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

Protein Ratio

Passed as determined by the SABA assay / HABA assay / binding ELISA.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-HPLC.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Shipping and Storage

This product is shipped at ambient temperature.

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

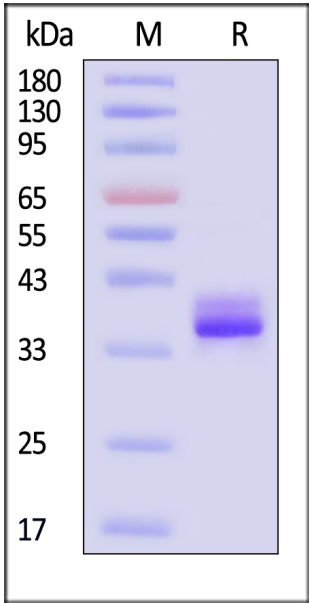
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

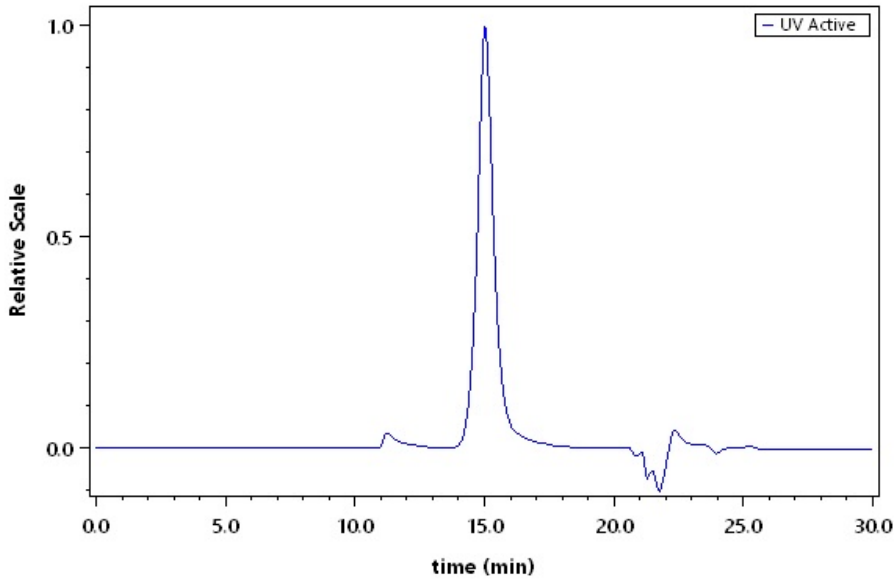
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



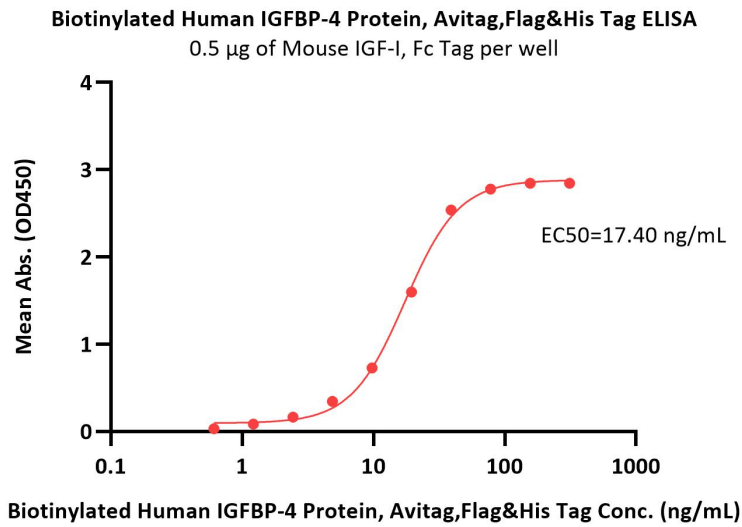
Biotinylated Human IGFBP-4 Protein, Avitag,Flag&His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-HPLC



The purity of Biotinylated Human IGFBP-4 Protein, Avitag,Flag&His Tag (Cat. No. IG4-M82D3) was greater than 90% as determined by SEC-HPLC.

Bioactivity-ELISA



Immobilized Mouse IGF-I, Fc Tag (Cat. No. IG1-M5253) at 5 µg/mL (100 µL/well) can bind Biotinylated Human IGFBP-4 Protein, Avitag,Flag&His Tag (Cat. No. IG4-M82D3) with a linear range of 0.6-39 ng/mL (QC tested).

Background

Insulin-like growth factor-binding protein 4 (IGFBP-4) is also known as IGF-binding protein 4, which contains an N-terminal IGFBP domain, a central domain, and a C-terminal thyroglobulin type-I domain. IGFBP-4 binds both insulin-like growth factors (IGFs) I and II and circulates in the plasma in both glycosylated and non-glycosylated forms. Binding of this protein prolongs the half-life of the IGFs and alters their interaction with cell surface receptors. IGFBP-4 is a unique protein that consistently inhibits several cancer cells in vivo and in vitro. Its inhibitory action has been demonstrated in vivo in prostate and colon cancers. IGFBP-4 is secreted by various colon cancer cells.

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